



Hikvision HF-VH221

· Specification summary

Device class	Fire Detection Camera
Temperature sensing principle	A thermistor is named as the temperature-sensing method. This does not establish a radiometric thermal-imaging sensor or a thermal-pixel image.
Temperature alarm modes	High-temperature and differential-temperature alarms are listed. Confirm the required thresholds, site and system rather than assuming smoke or flame detection.
Alarm indication	The single indicator uses red for alarm, yellow for fault and green for normal. It is distinct from infrared illumination.
Remote silence	Remote alarm silencing is listed. Authorised configuration and the actual safety procedure must be confirmed.
Image sensor	A 1/2.9-inch progressive-scan CMOS sensor is listed for the visible camera.
Maximum image size	1920 × 1080 pixels is the listed maximum image size. It is not a thermal-image resolution.
Main stream	25 fps at 1920 × 1080 or 1280 × 720 is listed. Confirm the chosen codec and configuration.
Sub-stream	25 fps at 704 × 576 or 640 × 480 is listed. These are separate sub-stream options.
Minimum colour illumination	0.01 lux at F2.0 with AGC on is listed. This test condition is not a promise of identification in every low-light scene.
Shutter range	1/25 to 1/100,000 second is listed. Exposure selection affects usable motion images.
Image processing	Digital WDR, BLC and 3D DNR are listed. No numerical true-WDR rating is inferred.
Video compression	H.264 and H.265 are listed for main and sub-streams. Confirm recorder support and the actual selected profile.
Video bitrate	256 kbps to 4 Mbps is the listed bitrate range. Recording time depends on the actual configuration and storage.
Lens options	Separate 2.8 mm and 4 mm options are listed. Neither lens is selected by this base-model enquiry.
2.8 mm lens coverage	For the 2.8 mm option: horizontal 105.12°, vertical 59.13° and diagonal 120.6°. Do not apply this tuple to the 4 mm lens.
4 mm lens coverage	For the 4 mm option: horizontal 78.96°, vertical 43.17° and diagonal 93.31°. Do not apply this tuple to the 2.8 mm lens.
Adjustment reference	Horizontal 0–360°, vertical 0–70° and rotation 0–360° are listed adjustments. These do not establish a motorised pan/tilt or optical-zoom function.
Supplement light	Up to 30 m infrared supplement-light range is listed. It is not temperature-alarm range or a guaranteed recognition distance.

Microphone	One built-in microphone is listed. No audio-pickup distance or speaker is inferred.
Network port	One RJ45 10/100 Mbps Ethernet port is listed. Network availability and correct configuration are required.
Interoperability references	ONVIF profiles S and G, ISAPI and EZVIZ are named. These are manufacturer references, not proof that a particular recorder or cloud account has been connected.
Power alternatives	12 V DC or IEEE 802.3af Class 3 PoE is listed. Confirm an appropriate compliant supply; these are alternatives, not additive power sources.
Consumption reference	Up to 6.5 W is listed. Confirm the actual operating state and supply design.
Operating environment	–30 to 60 °C and humidity below 95%, non-condensing, are listed. The actual enclosure and site must be suitable.
Ingress reference	IP66 is the manufacturer enclosure reference. It does not authorise underwater use or guarantee every installation seal.
Body dimension reference	The body table lists diameter 109.9 mm and height 106.5 mm; the dimensioned drawing shows the same two measurements. Verify actual mounting clearances separately.
Mounting-height reference	The source lists wall mounting at 2.4–2.8 m and pendant mounting at 3.3–6 m. These are manufacturer references, not a site-specific life-safety design or installation service.

Specifications are summarised from the manufacturer's published information (checked 2026-10-20). They describe the cited version only. Confirm the exact model, suffix and supplied revision before ordering. ISD confirms supply, price, availability and warranty separately.

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